Tips for Preparing Your Floodplain Project for a Successful Review at the Local Level

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Disclaimer

This is an engineering workshop, but I'm not an engineer! I'm a land-use planner.



Tips for Success

- · Gain an understanding of the NFIP program
- · Work within your scope of expertise
- · Obtain permits before you do the work
- · Submit a complete application
- · Post-project certification

Tip#1

Familiarize Yourself with the Requirements of the NFIP and the Local Community's Floodplain Regulations

Why Do We Manage Floodplain Development?

- · Because its fun?
- · Local communities have to in order to maintain eligibility for federal disaster relief funds
- Guide the development of the 100-year floodplain by insuring regulations balance the greatest public good with the least private injury (assure the actions of one landowner are not to the detriment of another landowner or the public).
- · Identify lands unsuitable for certain development purposes due to hazards.
- · Minimize the need for rescue and relief efforts.

Progressive Floodplain Management

- If all our flood maps are accurate and regulations enforced, how come we keep experiencing ever-increasing damages from floods?
- Progressive floodplain management acknowledges imperfect flood hazard prediction and errs on the side of protecting public health and safety!
- · "Eyes Wide-Open" Approach

Flooding in Montana What's the big deal?





Don't we want











Permitting Process

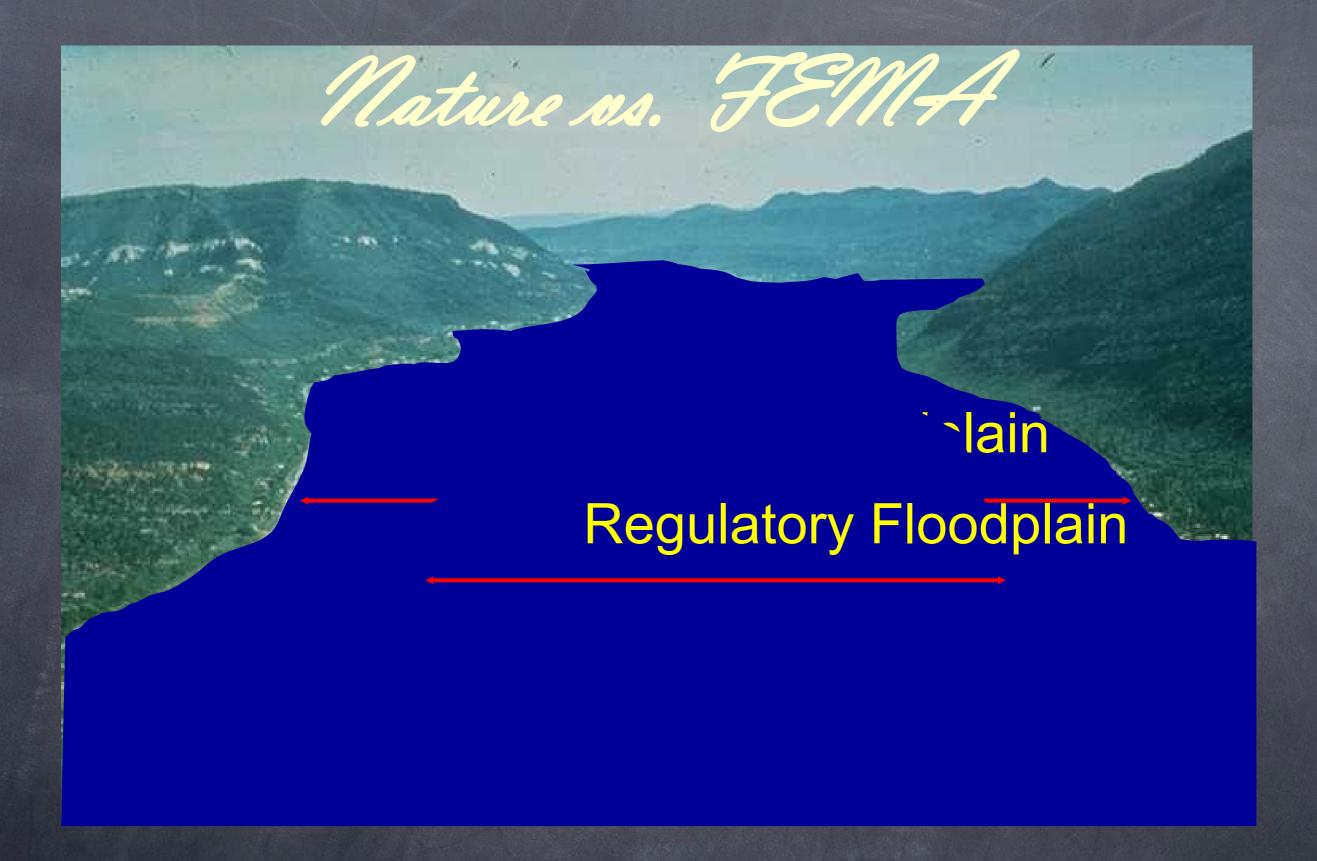
- · Gather general information about project
- Schedule pre-submittal meeting with floodplain administrator
- · Preparation of permit application
- · Submittal of Application/Application Review
- · Record of decision
- · If approved, construction of project
- · Post-construction certification

"All you communities around the state need to get together and standardize your permitting requirements. Each community having different requirements is just ridiculous."

Engineer

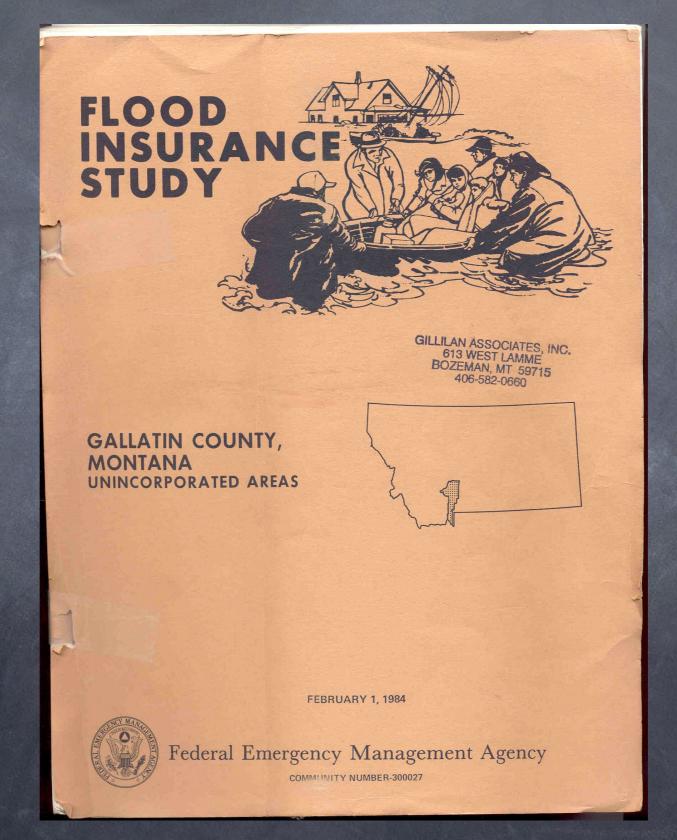
Understand the Hierarchy

- The NFIP is a federal program, but it emphasizes local control and even rewards local efforts to mitigate flood hazards and minimize flood damage (e.g. the CRS program).
- Federal minimum standards
- State Floodplain & Floodway Management Act & A.R.M. must meet or exceed federal standards
- Local Regulations must meet or exceed State standards.



100-year floodplain is a FEMA creation. It is an estimate. Water frequently flows over this floodplain during much smaller events.

Flood Insurance Studies



FIRM

FLOOD INSURANCE RATE MAP

GALLATIN COUNTY, MONTANA

(UNINCORPORATED AREAS)

MAP INDEX

PANELS PRINTED: 170, 180, 190, 285, 305, 310, 315, 320, 340, 405, 415, 430, 440

COMMUNITY-PANEL NUMBERS 300027 0001-0900

EFFECTIVE DATE: AUGUST 1, 1984

GILLILAN ASSOCIATES, I 613 WEST LAMME -BOZEMAN, MT 39715 406-582-0800

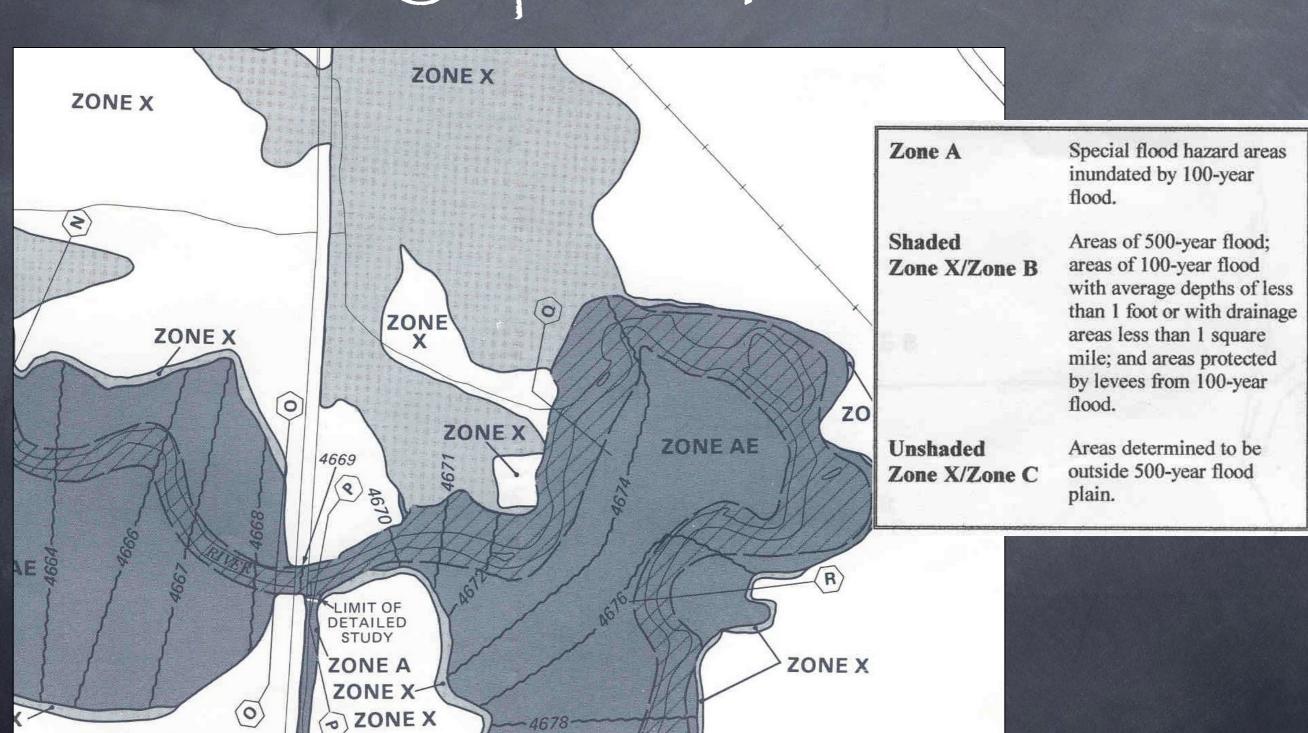
Federal Emergency Management Agency

FIRM

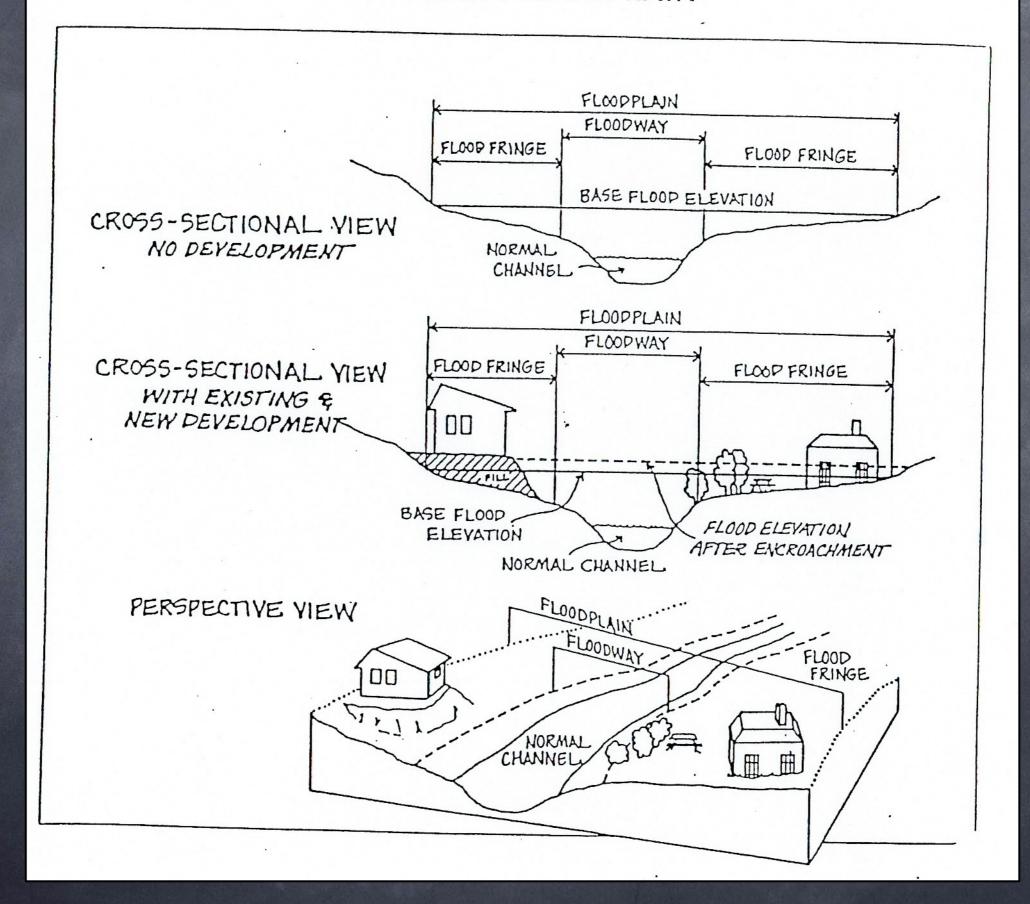
Purpose: for lenders and insurance agents to assign insurance premiums based on risk

What they don't do: always accurately predict flood behavior and flood hazard. Newer maps made with modern methods do a better job.

Floodplain Maps Represent a Snapshot in Time



100-YEAR FLOODPLAIN



"Flood maps missed mark; Pacific homeowners got soaked"

Flood maps missed where the flooding happened

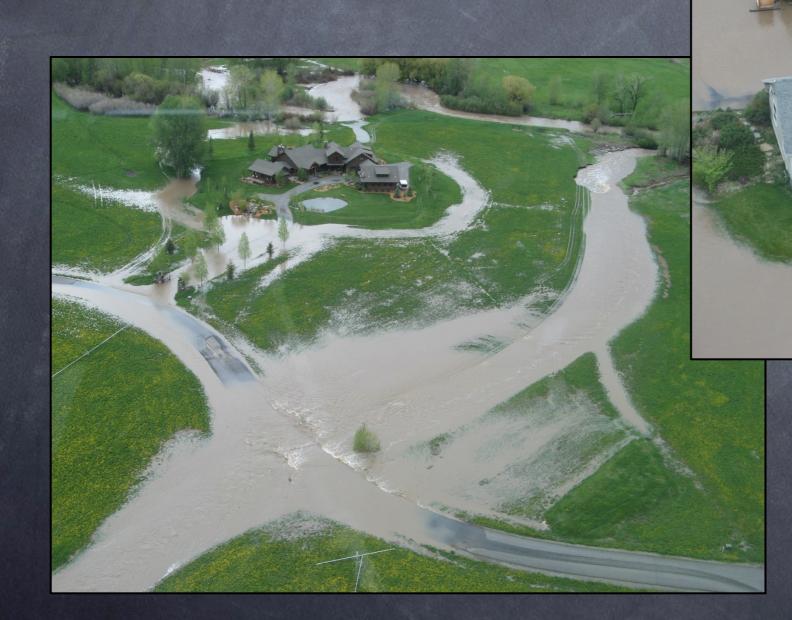
Federal floodplain maps, crucial to decisions about who gets flood insurance and where development happens, failed to reflect reality in recent flooding in Pacific.



The Seattle Times - 1/26/2009

- "Natural erosion digs part of the channel deeper, and fills other parts with gravel. The White River is notoriously fast-changing."
- "New development upstream can take up space in the floodplain, forcing more water downstream."

Not a perfect system!



Local Control

- Locals are in the best position to assess and understand their particular flood hazards.
- Locals are in the best position to understand and assess the balance between political will and risk tolerance in their communities.
- Locals are in the best position to know what information they need to review a project.
- Locals are the ones that make the decision on whether or not to approve a project.

Floodplain Regulations vs. Insurance Requirements

- · Not always consistent
- · "Lowest floor" vs. threshold elevation
- Crawlspace vs. basement
- · Wet floodproofing vs. dry floodproofing
- · LOMC
- It is not the responsibility of the local community to advise a property owner on the insurance ramifications of a proposed project

Tip#2

Practice Within Your Scope of Expertise

What is your area of expertise in the floodplain arena?

- · Engineering
- · Regulatory / Permitting
- Insurance
- Legal
- Natural Resource Management

Know who the experts are in the other topical areas and use them as resources!

How much experience do you have designing and permitting floodplain projects?

- · Obtain Training
- · Ask Questions / Seek Guidance
- · Request Peer Review
- · Turn Mistakes into Learning Opportunities

Don't Buffalo Me!



Know the Local Flooding Patterns

- · ce Jams -- December March
- · Snowmelt +/- Frozen Ground -- March
- · Rain Events +/- snowmelt -- June
- · Debris jams
- · Channel Migration
- · Emergency levees (heaps of dirt)

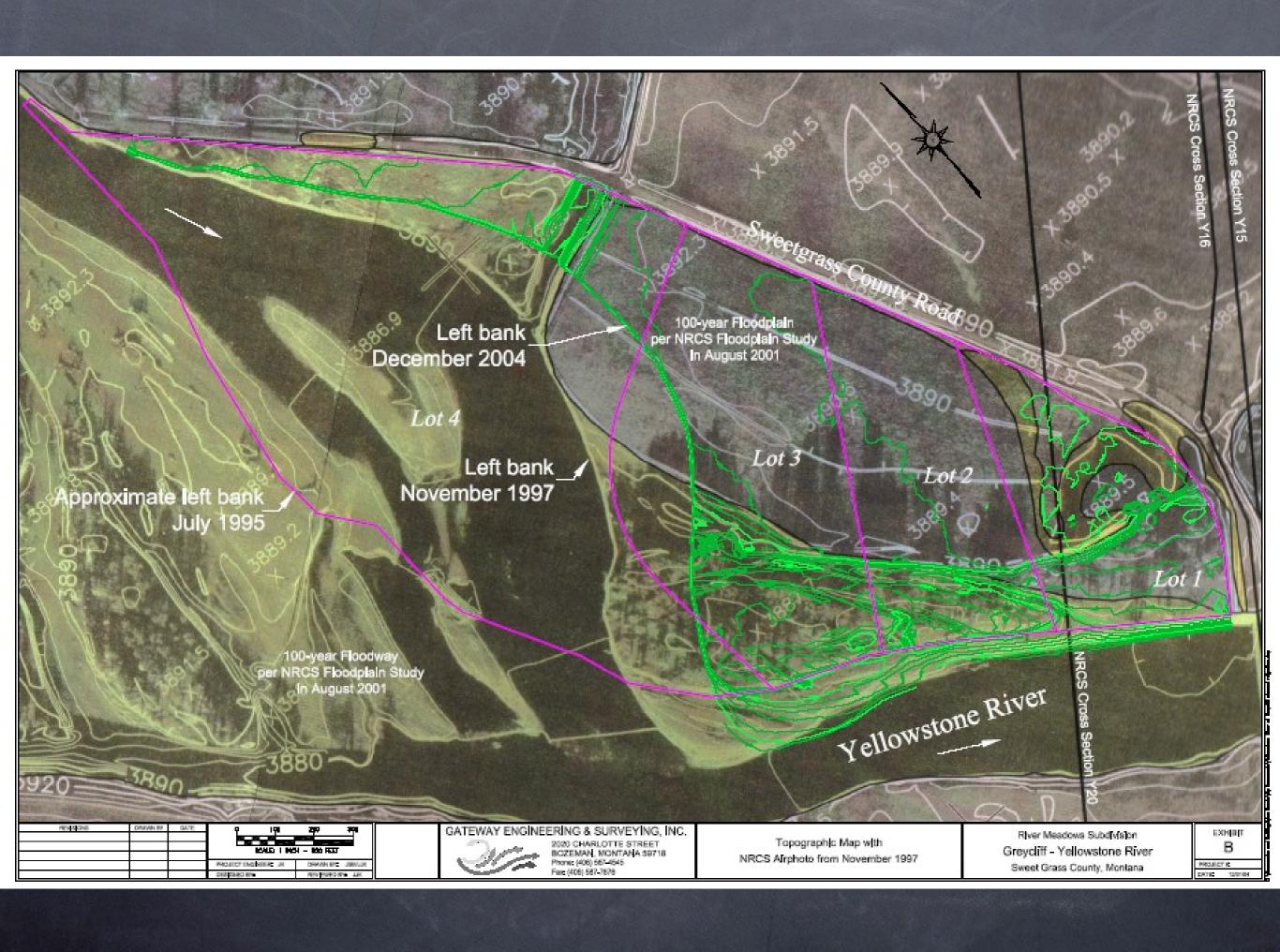
lce Jam



Debris Jam



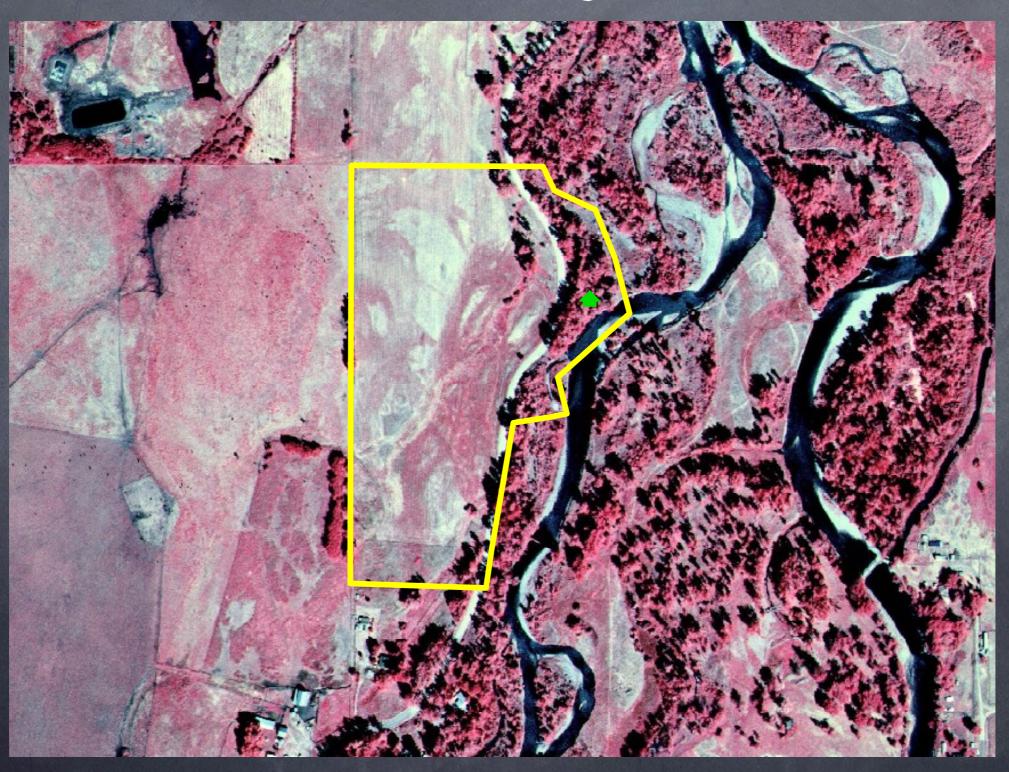




Precipitation Coinciding with Peak Runoff



Just because you can doesn't mean you should!



Tip#3

Obtain all required permits before performing work.

How about seeing this picture on the front page of the newspaper? Did they have a floodplain permit?



Mayor says bridge to complete trail system will go in July

More Headlines

- Logan Veteran's Fishing Park Dedicated

 Belgrade News, May 24,2011
- · Facts Should Guide Agencies Concerned with Fishing Park

Belgrade News, November 2,2011

· EPA Orders Fishing Park to be Restored

Belgrade News, February 21, 2012

After-the-Fact Permitting

- · Puts everyone on defense & complicates review
- · Enhanced public & political scrutiny
- · Forensic engineering
- · More expensive for client
- High likelihood that project will have to be modified to meet requirements of regulatory agencies
- · Possibility of fines being levied

"Emergency" Projects

- There are legitimate emergencies, but they are few and far between.
- Lack of planning on someone else's part does not constitute an emergency!
- Work done under "emergency" provisions often has to be redone or substantially modified to meet the requirements of regulatory agencies.
- If crucial infrastructure or structures are not threatened, often better waiting to obtain all necessary permits.

Tip#4

Submit a Complete Application

Permitting Process

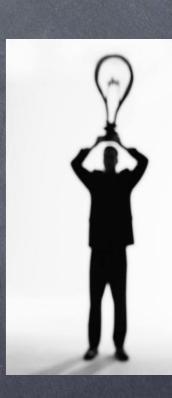
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Joint Application Form

- This application form is intended to add convenience to applicants who need to obtain permits from a variety of agencies for the same project/activity.
- It carries no regulatory authority.
- Encourages applicants to contact the local floodplain administrator prior to submitting the application.
- Many local governments require additional information to supplement the joint application.

Do

- Plan ahead, read the Community's Floodplain Ordinance, and familiarize yourself with the application review process
- Call the Floodplain Administrator with any questions about the project or submittal requirements prior to compiling the application
- Consider requesting a pre-submittal meeting or multi-agency site visit prior to submitting applications for complicated projects
- · Provide adequate documentation
- Use an "eyes wide open" approach when considering flood hazards associated with the project & remember that issuance of a permit doesn't absolve you of liability in a civil matter
- When a CLOMC is necessary, obtain it prior to submitting floodplain permits
- Remember the Floodplain Administrator has little control over federal or state standards



Don't

- · Blindside the Floodplain Administrator
- Start the project before you have obtained all required permits
- Submit an application for a use that is clearly prohibited by the community's ordinance
- Contact elected officials to exert political pressure on the review process
- · Try to pass a violation off as an "emergency project"
- Tave unrealistic expectations about the review process and associated timeline
- · Forget about variances and appeals



Tip #5

Follow Through with Post-Project Certifications

Conditional Approval

- Authorizes a scope of work and provides stipulations for how work must be completed
- Permit not validated until documentation provided to show work was done in accordance with conditions of approval
- · Comes back to bite people:
 - Request another permit for a new project
 - List property for sale or refinance
 - □ LOMC

Some Common Denominators of Good Projects

- Engineers/consultants who know the resource and also take the time to learn the applicable rules and regulations
- •Pre-submittal meetings they get everyone on the same page
- ·Attention to detail and good documentation within the application
- ·An "eyes wide open approach" to assessing flood hazards

Some Common Denominators of Unpleasant Projects

- Engineers/consultants working outside of their scope of expertise and/or not being very honest with their clients
- Unrealistic assessment of flood hazards naïve landowners/consultants
- Sloppy work/poor documentation as the landowner's representative you need to know what the rules are/or ask where to find them
- Applicants who think they are above the rules and would rather beg for forgiveness if they get caught than ask for permission before they do the work

Questions?



Contact Information

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